

What is claimed is:

1. An entrance intercom system, fabricated on the gate of a community, providing the functions of communicating between visitors and residents, identity recognizing, locking/unlocking the gate, said
5 entrance intercom system comprising:

a data base, storing the resident codes, the phone numbers and the identity recognizing codes of the residents of the community;

a communication module, coupled with public switch telephone networks, providing the communicating function between the visitors and
10 the residents, and receiving the incoming phone calls;

a CPU, connected with said data base and said communication module respectively, responsive to the resident codes input by the visitors via a dialing keyboard, to select the phone numbers of the resident stored in said data base, and to drive said communication module automatically to
15 dial the resident for providing the communicating function between the visitors and the resident;

an incoming phone numbers collecting module, connected with said communication module and said CPU respectively, collecting the incoming phone numbers, said CPU can compare said incoming phone
20 numbers and the phone numbers of the residents stored in said data base, when the incoming phone number is identical to one of the phone numbers of the residents in said data base, said CPU will send a signal to unlock said gate;

a RF identification device, for detecting the RF messages of identity
25 recognizing and sending to said CPU, said CPU can compare said RF

messages with said identity recognizing codes stored in said data base, when said RF message is identical to that of the resident in said data base, said CPU will send a signal to unlock said gate; and

5 a remote control receiving means, for receiving remote control messages of identity recognizing and sending to said CPU, said CPU can compare said remote control messages with the identity recognizing codes stored in said data base, when the remote control message is identical to one of the identity recognizing codes of the residents, said CPU will send a signal to unlock said gate.

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2. The system according to Claim 1, wherein said phone numbers of the residents stored in said database comprise wired telephone numbers and cellular phone numbers of the residents.

15 3. The system according to Claim 2, the resident can use a cellular phone to dial said entrance intercom system for unlocking said gate, when the incoming phone number of said cellular phone collected by said incoming phone number collecting module is identical to one of the phone numbers stored in said database, said CPU will send a signal to unlock
20 said gate.

4. The system according to Claim 2, when said communication module is utilized to dial the wired telephone of the resident, if said wired telephone is busy or no answer, said communication module will
25 automatically dial the cellular phone of the resident.

5. A method to operate an entrance intercom system, wherein said entrance intercom system is fabricated on an gate of a community to provide the functions of communicating between visitors and residents, identity recognizing, locking/unlocking the gate, and said entrance intercom system comprises a data base for storing the resident codes, the wired phone numbers and the cellular phone numbers of the residents, said entrance intercom system can be applied to contact with the resident via public switch telephone networks, said method comprises the steps of:

inputting the resident code to pick the wired phone number of the resident from said database;

dialing said wired phone number to contact with the resident;

when the wired phone of the resident is busy or no answer, automatically getting the cellular phone number of the resident from said database; and

dialing said cellular phone number to contact with the resident.

6. A method to manage data of an entrance intercom system, wherein said entrance intercom system is fabricated on an gate of a community to provide the functions of communicating between visitors and residents, identity recognizing, locking/unlocking the gate, and said entrance intercom system comprises a database for storing the resident codes, the wired phone numbers and the cellular phone numbers of the residents, said entrance intercom system can be applied to contact with the

residents via public switch telephone networks, said method comprises the steps of:

making a set of record when said entrance intercom system is applied to dial, to answer a phone call, or locking/unlocking the gate;

5 dialing a system service provider at a predetermined time to contact with a computer of the system service provider;

uploading the records to said computer of the system service provider; and

10 downloading data from said computer of the system service provider to upgrade said database.

7. The method according to Claim 6, wherein said records comprise dialed phone numbers, incoming phone numbers, the messages gotten from ID cards, and the time to lock/unlock the gate.

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8. The method according to Claim 6, wherein said entrance intercom system can connect to the computer of the system service provider via the internet to upload said records and download said data.

20 9. The method according to Claim 8, wherein said predetermined time is at AM 2~4 clock.

10. The method according to Claim 6, wherein said upgraded data downloaded from the system service provider comprise the information of
25 moving out/in of the residents and the data to update said entrance

intercom system.

11. The method according to Claim 6, wherein said data downloaded
from the system service provider comprise the resident information, the
5 wired phone number, the cellular phone number and the resident code.